

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19	(US-20050119996-\$ or US-20040193827-\$ or US-20030061331-\$ or US-20040064293-\$ or US-20010054093-\$.did. or (US-5742819-\$ or US-5067099-\$ or US-6804627-\$ or US-6505248-\$ or US-6609083-\$ or US-6975963-\$ or US-6738933-\$ or US-6405327-\$ or US-6587857-\$ or US-5991761-\$ or US-6886020-\$ or US-6381635-\$ or US-6041332-\$ or US-6449663-\$.did.	US-PGPUB; USPAT	OR	ON	2006/06/09 22:07
L2	2	1 and (access adj path) and port and switch\$2 and (performance)	US-PGPUB; USPAT	OR	ON	2006/06/09 22:07
L3	0	((collect\$3 monitor\$3) with performance) and (switch and port and (access near2 path) and (predetermined pre-determined) and condition).clm.	US-PGPUB; USPAT	OR	ON	2006/06/09 22:38
L4	4	((collect\$3 monitor\$3) with performance) and (switch and port and (access near2 path)).clm.	US-PGPUB; USPAT	OR	ON	2006/06/09 22:41
L5	2	4 and (707/10 709/223 709/224 711/114).ccls.	US-PGPUB; USPAT	OR	ON	2006/06/09 22:39
S89	1	(US-20050119996-\$.did.	US-PGPUB	OR	ON	2006/06/08 14:17
S90	1	S89 and (access\$3 with path)	US-PGPUB; USPAT	OR	ON	2006/06/08 14:57
S91	22080	((access data network rout\$3) near2 path) and port and network and switch\$3	US-PGPUB; USPAT	OR	ON	2006/06/08 15:00
S92	3619	S91 and (performance with (monitor\$3 determin\$5 check\$3))	US-PGPUB; USPAT	OR	ON	2006/06/08 15:00
S93	1977	S92 and ("709"/\$ "714"/\$ "370"/\$ "707"/\$).ccls.	US-PGPUB; USPAT	OR	ON	2006/06/08 15:00
S94	13710	((access data network rout\$3) adj path) and port and network and switch\$3	US-PGPUB; USPAT	OR	ON	2006/06/08 15:01
S95	2424	S94 and (performance with (monitor\$3 determin\$5 check\$3))	US-PGPUB; USPAT	OR	ON	2006/06/08 15:01
S96	1305	S95 and ("709"/\$ "714"/\$ "370"/\$ "707"/\$).ccls.	US-PGPUB; USPAT	OR	ON	2006/06/08 16:59
S97	315	((access data network rout\$3) adj path) and port and network and switch\$3).clm.	US-PGPUB; USPAT	OR	ON	2006/06/08 16:51

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S98	3	S97 and (performance with (monitor\$3 determin\$5 check\$3)). clm.	US-PGPUB; USPAT	OR	ON	2006/06/08 16:53
S99	5	("20010054093" "5557747" "6009 466" "6170009" "6393474").PN.	US-PGPUB; USPAT	OR	ON	2006/06/08 16:51
S100	4	("20040098606" "20050018619" "20050114438" "6687651").PN.	US-PGPUB; USPAT	OR	ON	2006/06/08 16:51
S101	9	S99 or S100	US-PGPUB; USPAT	OR	ON	2006/06/08 16:57
S102	1	S101 and (((access data network rout\$3) adj path) and port and network and switch\$3)	US-PGPUB; USPAT	OR	ON	2006/06/08 16:57
S103	0	S102 and (performance with (monitor\$3 determin\$5 check\$3))	US-PGPUB; USPAT	OR	ON	2006/06/08 16:57
S104	0	S102 and (performance metric)	US-PGPUB; USPAT	OR	ON	2006/06/08 16:53
S105	1	S101 and (access adj path)	US-PGPUB; USPAT	OR	ON	2006/06/08 17:12
S106	812	((access adj path) and port and network and switch\$3)	US-PGPUB; USPAT	OR	ON	2006/06/08 18:38
S107	152	S106 and (performance with (monitor\$3 determin\$5 check\$3))	US-PGPUB; USPAT	OR	ON	2006/06/08 17:00
S108	90	S107 and ("709"/\$ "714"/\$ "370"/\$ "707"/\$).ccls.	US-PGPUB; USPAT	OR	ON	2006/06/08 17:00
S109	8	S106 and (performance with (monitor\$3 determin\$5 check\$3)). ab.	US-PGPUB; USPAT	OR	ON	2006/06/08 17:00
S110	5	("20010054093" "5557747" "6009 466" "6170009" "6393474").PN.	US-PGPUB; USPAT	OR	ON	2006/06/08 18:31
S111	4	("20040098606" "20050018619" "20050114438" "6687651").PN.	US-PGPUB; USPAT	OR	ON	2006/06/08 18:31
S112	9	S110 or S111	US-PGPUB; USPAT	OR	ON	2006/06/08 18:31
S113	1	S112 and (access adj path)	US-PGPUB; USPAT	OR	ON	2006/06/08 18:35
S114	1	"20050119996"	US-PGPUB; USPAT	OR	ON	2006/06/08 18:34
S115	1	S114 and (select\$3 collect\$3) with (performance) with path	US-PGPUB; USPAT	OR	ON	2006/06/08 18:32
S116	1	(US-20010054093-\$).did.	US-PGPUB	OR	ON	2006/06/08 18:35
S117	0	S116 and performace	US-PGPUB; USPAT	OR	ON	2006/06/08 18:36

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S118	0	S116 and performance	US-PGPUB; USPAT	OR	ON	2006/06/08 18:35
S119	1	S116 and (performance status (operating adj condition) (transfer adj rate) speed power totals (commit adj charge) (memory near2 usage) (CPU near2 usage) (PF adj usage) (kernel adj memory) (physical adj memory) handle thread processes)	US-PGPUB; USPAT	OR	ON	2006/06/08 18:36
S120	510871	(monitor\$3 collect\$3 determin\$3 retriev\$3) near3 (performance status (operating adj condition) (transfer adj rate) speed power totals (commit adj charge) (memory near2 usage) (CPU near2 usage) (PF adj usage) (kernel adj memory) (physical adj memory) handle thread processes)	US-PGPUB; USPAT	OR	ON	2006/06/08 18:37
S121	383	S120 and ((access adj path) and port and network and switch\$3)	US-PGPUB; USPAT	OR	ON	2006/06/08 19:14
S122	6	(US-20050119996-\$).did. or (US-5742819-\$ or US-5991761-\$ or US-6041332-\$ or US-6381635-\$ or US-6505248-\$ or US-6587857-\$ or US-6886020-\$).did.	US-PGPUB; USPAT	OR	ON	2006/06/08 18:40
S123	5	S122 and (modif\$7 chang\$3 edit\$3 tun\$3 vary\$3) with (time interval frequenc\$3 period performance)	US-PGPUB; USPAT	OR	ON	2006/06/08 18:41
S124	268	S121 and (modif\$7 chang\$3 edit\$3 tun\$3 vary\$3) with (time interval frequenc\$3 period performance)	US-PGPUB; USPAT	OR	ON	2006/06/08 18:41
S125	6	S121 and (modif\$7 chang\$3 edit\$3 tun\$3 vary\$3) with (time interval frequenc\$3 period parameter condition) with performance	US-PGPUB; USPAT	OR	ON	2006/06/08 19:15
S126	481	S120 and ((access adj path) and port and switch\$3)	US-PGPUB; USPAT	OR	ON	2006/06/08 19:14
S127	9	S126 and (modif\$7 chang\$3 edit\$3 tun\$3 vary\$3) with (time interval frequenc\$3 period parameter condition) with performance	US-PGPUB; USPAT	OR	ON	2006/06/08 19:15
S128	1	(US-20030061331-\$).did.	US-PGPUB	OR	ON	2006/06/09 14:58

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S12 9	1	S128 and (switch\$2 port)	US-PGPUB; USPAT	OR	ON	2006/06/09 14:58
S13 0	510871	(monitor\$3 collect\$3 determin\$3 retriev\$3) near3 (performance status (operating adj condition) (transfer adj rate) speed power totals (commit adj charge) (memory near2 usage) (CPU near2 usage) (PF adj usage) (kernel adj memory) (physical adj memory) handle thread processes)	US-PGPUB; USPAT	OR	ON	2006/06/09 17:45
S13 1	115083	S130 and (chang\$3 modif\$7 alter\$3 edit\$3 set setting adjust\$3) near3 (frequenc\$3 range interval time-frame period)	US-PGPUB; USPAT	OR	ON	2006/06/09 18:11
S13 2	1	S131 and (((access adj path) with (relat\$3 correspond\$3 relationship)) same port same switch\$2)	US-PGPUB; USPAT	OR	ON	2006/06/09 17:49
S13 3	9	S131 and (((access adj path) with (relat\$3 correspond\$3 relationship)) and port and switch\$2)	US-PGPUB; USPAT	OR	ON	2006/06/09 18:12
S13 4	2397	S131 and (707/10 714/43,47 702/182-186, 709/223,224, 238-244, 711/114).ccls.	US-PGPUB; USPAT	OR	ON	2006/06/09 18:07
S13 5	0	S134 and (((access adj path) with (chang\$3 edit\$3 modif\$7 tun\$3) with (setting frequency interval period) with performance) and port and switch\$2)	US-PGPUB; USPAT	OR	ON	2006/06/09 18:04
S13 6	3	S134 and (((access adj path)) and ((chang\$3 edit\$3 modif\$7 tun\$3) with (setting frequency interval period) with performance))	US-PGPUB; USPAT	OR	ON	2006/06/09 18:07
S13 8	7	S137 and (((access adj path)) and ((chang\$3 edit\$3 modif\$7 tun\$3) with (setting frequency interval period) with performance))	US-PGPUB; USPAT	OR	ON	2006/06/09 18:11
S13 9	115083	S130 and (chang\$3 modif\$7 alter\$3 edit\$3 set setting adjust\$3) near3 (frequenc\$3 range interval time-frame period)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/09 18:11
S14 0	9	S139 and (((access adj path) with (relat\$3 correspond\$3 relationship)) and port and switch\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/09 18:12



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Time: 22:25:28

## Inventor Information for 10/789472

Inventor Name	City	State/Country
OHATA, HIDEO	FUJISAWA	JAPAN
AOSHIMA, TATSUNDO	SAGAMIHARA	JAPAN
TAKEDA, KEI	KAWASAKI	JAPAN
YAMASHITA, NOBUYUKI	YOKOHAMA	JAPAN
KUSAMA, TAKATO	YOKOHAMA	JAPAN

Appln Info

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Petition Info

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PCT /  /   or PG PUBS #

Attorney Docket #

Bar Code #

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**Inventor Name Search Result**

Your Search was:

Last Name = OHATA

First Name = HIDEO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>06587527</u>	Not Issued	161	03/08/1984	METHOD OF ESTIMATING FRACTURE POINT OF PIPE LINE NETWORK	OHATA, HIDEO
<u>06696065</u>	Not Issued	161	01/29/1985	METHOD OF PROGRAMMING A SEQUENCE CONTROLLER	OHATA, HIDEO
<u>06841827</u>	<u>4712182</u>	150	03/20/1986	METHOD OF ESTIMATING FRACTURE POINT OF PIPELINE NETWORK	OHATA, HIDEO
<u>06888202</u>	<u>4817032</u>	150	07/23/1986	USER PROGRAMMABLE DATA PROCESSOR	OHATA, HIDEO
<u>07122273</u>	<u>4903215</u>	150	11/18/1987	INFERENCE METHOD	OHATA, HIDEO
<u>07266401</u>	<u>5006998</u>	150	11/02/1988	COMPUTER SYSTEM WITH EASY INPUT MEANS FOR CONSULTATION	OHATA, HIDEO
<u>07266898</u>	<u>4959799</u>	150	11/03/1988	INFERENCE METHOD AND SYSTEM	OHATA, HIDEO
<u>07855062</u>	Not Issued	166	03/19/1992	MANAGEMENT SYSTEM FOR MANUFACTURE	OHATA, HIDEO
<u>08835026</u>	<u>5864857</u>	150	03/27/1997	METHOD FOR PROCESSING MULTI-DIMENSIONAL DATA	OHATA, HIDEO
<u>09366320</u>	<u>6424970</u>	150	08/02/1999	SORTING SYSTEM AND METHOD EXECUTED BY PLURAL COMPUTERS FOR SORTING AND DISTRIBUTING DATA TO SELECTED OUTPUT NODES	OHATA, HIDEO
<u>10196779</u>	<u>6837434</u>	150	07/17/2002	LASER MODULE FOR BAR CODE READER	OHATA, HIDEO
<u>10382003</u>	<u>6965976</u>	150	03/04/2003	BACKUP METHOD ON A HIERARCHICAL BACKUP SYSTEM	OHATA, HIDEO
<u>10789472</u>	Not	71	02/27/2004	Method and program of collecting	OHATA, HIDEO

	Issued			performance data for storage network	
<u>10998749</u>	Not Issued	41	11/30/2004	Method of collecting and storing storage network performance information, computer system, and program	OHATA, HIDEO

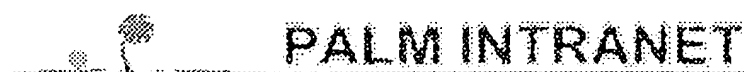
Inventor Search Completed: No Records to Display.

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Last Name	First Name	
<input type="text" value="OHATA"/>	<input type="text" value="HIDEO"/>	<input type="button" value="Search"/>

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## Inventor Name Search Result

Your Search was:

Last Name = AOSHIMA

First Name = TATSUNDO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">08824491</a>	Not Issued	161	03/27/1997	ELECTRONIC DOCUMENT CIRCULATING METHOD	AOSHIMA, TATSUNDO
<a href="#">08946683</a>	Not Issued	168	10/07/1997	COMPUTER PROGRAM INTERACTIVE PROCESSING METHOD AND INTERACTIVE PROCESSING SYSTEM	AOSHIMA, TATSUNDO
<a href="#">09022003</a>	Not Issued	161	02/11/1998	METHOD FOR INTER-OBJECT COMMUNICATION	AOSHIMA, TATSUNDO
<a href="#">10081486</a>	Not Issued	77	02/20/2002	One-time logon method for distributed computing systems	AOSHIMA, TATSUNDO
<a href="#">10081551</a>	Not Issued	41	02/20/2002	One-time logon method for distributed computing systems	AOSHIMA, TATSUNDO
<a href="#">10301215</a>	<a href="#">6970989</a>	150	11/21/2002	VOLUME MANAGEMENT METHOD AND APPARATUS	AOSHIMA, TATSUNDO
<a href="#">10366554</a>	Not Issued	41	02/14/2003	Storage device management method, system and program	AOSHIMA, TATSUNDO
<a href="#">10370770</a>	Not Issued	71	02/24/2003	Storage management method	AOSHIMA, TATSUNDO
<a href="#">10382003</a>	<a href="#">6965976</a>	150	03/04/2003	BACKUP METHOD ON A HIERARCHICAL BACKUP SYSTEM	AOSHIMA, TATSUNDO
<a href="#">10384254</a>	<a href="#">7031988</a>	150	03/06/2003	METHOD FOR DISPLAYING THE AMOUNT OF STORAGE USE	AOSHIMA, TATSUNDO
<a href="#">10745158</a>	Not Issued	61	12/22/2003	Storage path control method	AOSHIMA, TATSUNDO
<a href="#">10789472</a>	Not Issued	71	02/27/2004	Method and program of collecting performance data for storage network	AOSHIMA, TATSUNDO
<a href="#">10834839</a>	Not Issued	41	04/30/2004	Method for rearranging logical volume	AOSHIMA, TATSUNDO
<a href="#">10853157</a>	Not Issued	41	05/26/2004	Server and method for managing volume storing digital archive	AOSHIMA, TATSUNDO



<a href="#">10865264</a>	Not Issued	30	06/09/2004	Method for allocating storage area	AOSHIMA, TATSUNDO
<a href="#">10884247</a>	Not Issued	93	07/01/2004	METHOD OF MANAGING A STORAGE AREA NETWORK	AOSHIMA, TATSUNDO
<a href="#">10975645</a>	Not Issued	94	10/29/2004	STORAGE SYSTEM AND DATA RELOCATION CONTROL DEVICE	AOSHIMA, TATSUNDO
<a href="#">10980291</a>	Not Issued	30	11/04/2004	Server and method for managing volume storing digital archive	AOSHIMA, TATSUNDO
<a href="#">11130119</a>	Not Issued	30	05/17/2005	Data relocation method	AOSHIMA, TATSUNDO
<a href="#">11153479</a>	Not Issued	30	06/16/2005	Inter-volume migration system, inter-volume relocation method, and program therefor	AOSHIMA, TATSUNDO
<a href="#">11245235</a>	Not Issued	30	10/07/2005	Storage system and data relocation control device	AOSHIMA, TATSUNDO
<a href="#">11251912</a>	Not Issued	20	10/18/2005	Storage management method and a storage system	AOSHIMA, TATSUNDO
<a href="#">11254803</a>	Not Issued	20	10/21/2005	Storage management system and method	AOSHIMA, TATSUNDO
<a href="#">11286426</a>	Not Issued	20	11/25/2005	License-based path management method for a computer system	AOSHIMA, TATSUNDO
<a href="#">11289277</a>	Not Issued	30	11/30/2005	Storage system and data relocation control device	AOSHIMA, TATSUNDO

Inventor Search Completed: No Records to Display.

**Search Another: Inventor**

<b>Last Name</b>	<b>First Name</b>	
<input type="text" value="AOSHIMA"/>	<input type="text" value="TATSUNDO"/>	<input type="button" value="Search"/>

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## Inventor Name Search Result

Your Search was:

Last Name = TAKEDA

First Name = KEI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">08166980</a>	<a href="#">5427844</a>	150	12/15/1993	ARTICLES OF NATURAL CELLULOSE FIBERS WITH IMPROVED DEODORANT PROPERTIES AND PROCESS FOR PRODUCING SAME	TAKEDA, KEI
<a href="#">09192150</a>	Not Issued	161	11/16/1998	PERSONAL INFORMATION CONTROLLING METHOD AND PERSONAL INFORMATION CONTROLLING APPARATUS	TAKEDA, KEI
<a href="#">10081486</a>	Not Issued	77	02/20/2002	One-time logon method for distributed computing systems	TAKEDA, KEI
<a href="#">10081551</a>	Not Issued	41	02/20/2002	One-time logon method for distributed computing systems	TAKEDA, KEI
<a href="#">10166124</a>	<a href="#">6564323</a>	150	06/11/2002	PERSONAL INFORMATION CONTROLLING METHOD AND PERSONAL INFORMATION CONTROLLING APPARATUS	TAKEDA, KEI
<a href="#">10358975</a>	<a href="#">7035882</a>	150	02/04/2003	DATA STORAGE SYSTEM	TAKEDA, KEI
<a href="#">10366554</a>	Not Issued	41	02/14/2003	Storage device management method, system and program	TAKEDA, KEI
<a href="#">10370770</a>	Not Issued	71	02/24/2003	Storage management method	TAKEDA, KEI
<a href="#">10384254</a>	<a href="#">7031988</a>	150	03/06/2003	METHOD FOR DISPLAYING THE AMOUNT OF STORAGE USE	TAKEDA, KEI
<a href="#">10771113</a>	Not Issued	95	02/02/2004	METHOD FOR ANALYZING PERFORMANCE INFORMATION	TAKEDA, KEI
<a href="#">10789472</a>	Not Issued	71	02/27/2004	Method and program of collecting performance data for storage network	TAKEDA, KEI
<a href="#">10834839</a>	Not	41	04/30/2004	Method for rearranging logical	TAKEDA, KEI

	Issued			volume	
<u>10998749</u>	Not Issued	41	11/30/2004	Method of collecting and storing storage network performance information, computer system, and program	TAKEDA, KEI
<u>11202552</u>	Not Issued	20	08/11/2005	Method for analyzing performance information	TAKEDA, KEI
<u>11254803</u>	Not Issued	20	10/21/2005	Storage management system and method	TAKEDA, KEI
<u>11325021</u>	Not Issued	25	01/03/2006	Data storage system	TAKEDA, KEI
<u>09956124</u>	<u>6434068</u>	150	09/20/2001	NONVOLATILE SEMICONDUCTOR MEMORY WITH TESTING CIRCUIT	TAKEDA, KEIICHIRO
<u>06672727</u>	<u>4653931</u>	150	11/19/1984	SELF-CHARGING ELECTRONIC TIMEPIECE	TAKEDA, KEIGO
<u>07329916</u>	<u>RE35043</u>	150	03/28/1989	SELF-CHARGING ELECTRONIC TIMEPIECE	TAKEDA, KEIGO
<u>08524574</u>	<u>6110108</u>	150	09/07/1995	HOME CARE SYSTEM, CENTER TERMINAL AND PATIENT TERMINAL	TAKEDA, KEIICHI
<u>09235495</u>	<u>6176826</u>	150	01/22/1999	HOME CARE SYSTEM, CENTER TERMINAL AND PATIENT TERMINAL	TAKEDA, KEIICHI
<u>09714293</u>	<u>6620099</u>	150	11/17/2000	HOME CARE SYSTEM, CENTER TERMINAL AND PATIENT TERMINAL	TAKEDA, KEIICHI
<u>10622739</u>	Not Issued	30	07/21/2003	Home care system, center terminal and patient terminal	TAKEDA, KEIICHI
<u>09371834</u>	<u>6233168</u>	150	08/11/1999	NON-VOLATILE SEMICONDUCTOR MEMORY CAPABLE OF REDUCING PARASITIC CURRENT	TAKEDA, KEIICHIRO
<u>09418307</u>	<u>6111815</u>	150	10/14/1999	SYNCHROMOUS BURST NONVOLATILE SEMICONDUCTOR MEMORY	TAKEDA, KEIICHIRO
<u>09924553</u>	<u>6477089</u>	150	08/09/2001	NONVOLATILE SEMICONDUCTOR MEMORY CIRCUIT CAPABLE OF HIGH-SPEED DATA READING	TAKEDA, KEIICHIRO
<u>06159566</u>	<u>4356246</u>	150	06/16/1980	METHOD OF MAKING A SILICON POWDER, AND ELECTROPHOTOGRAPHIC MATERIALS INCORPORATING SAID POWDER	TAKEDA, KEIJI


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**Inventor Name Search Result**

Your Search was:

Last Name = YAMASHITA

First Name = NOBUYUKI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">06377178</a>	4513834	150	05/11/1982	AGRICULTURAL TRACTOR	YAMASHITA, NOBUYUKI
<a href="#">06744194</a>	4657818	150	06/13/1985	SLIDING CURRENT COLLECTOR	YAMASHITA, NOBUYUKI
<a href="#">06796440</a>	Not Issued	161	11/08/1985	COOLING APPARATUS FOR SEMICONDUCTOR DEVICE OR THE LIKE	YAMASHITA, NOBUYUKI
<a href="#">06835831</a>	4731983	150	03/03/1986	LAWN MOWER	YAMASHITA, NOBUYUKI
<a href="#">06858759</a>	4727768	150	05/02/1986	TRANSMISSION FOR AGRICULTURAL TRACTOR	YAMASHITA, NOBUYUKI
<a href="#">06862477</a>	4721494	150	05/12/1986	DRIVE TRANSMISSION STRUCTURE FOR TRACTOR	YAMASHITA, NOBUYUKI
<a href="#">07000552</a>	4756208	150	01/05/1987	MID-MOUNT TRACTOR	YAMASHITA, NOBUYUKI
<a href="#">07043806</a>	Not Issued	166	04/29/1987	HEAT EXCHANGER FOR OIL	YAMASHITA, NOBUYUKI
<a href="#">07318005</a>	Not Issued	161	03/02/1989	FIXING DEVICE AND RECORDING DEVICE	YAMASHITA, NOBUYUKI
<a href="#">07319307</a>	5085806	150	03/06/1989	CONDUCTIVE MATERIAL AND PROCESS FOR PREPARING THE SAME	YAMASHITA, NOBUYUKI
<a href="#">07412926</a>	5029668	150	09/26/1989	MUFFLER SYSTEM	YAMASHITA, NOBUYUKI
<a href="#">07443847</a>	5022494	250	12/04/1989	HEAT EXCHANGER FOR OIL	YAMASHITA, NOBUYUKI
<a href="#">07754501</a>	5271871	250	09/03/1991	CONDUCTIVE MATERIAL AND PROCESS FOR PREPARING THE SAME	YAMASHITA, NOBUYUKI
<a href="#">07784549</a>	5207187	150	10/29/1991	AIR COOLING SYSTEM FOR A VERTICAL ENGINE	YAMASHITA, NOBUYUKI
<a href="#">07813375</a>	5148780	150	12/23/1991	CYLINDER LINER AND	YAMASHITA,

				METHOD FOR MANUFACTURING THE SAME	NOBUYUKI
<u>07842484</u>	<u>5208502</u>	250	02/27/1992	SLIDING CURRENT COLLECTOR MADE OF CERAMICS	YAMASHITA, NOBUYUKI
<u>07852579</u>	<u>5266860</u>	250	03/17/1992	COMMUTATOR	YAMASHITA, NOBUYUKI
<u>08026368</u>	<u>5335487</u>	150	03/04/1993	ENGINE SPEED CONTROL APPARATUS FOR A WORKING VEHICLE	YAMASHITA, NOBUYUKI
<u>08081517</u>	<u>5284115</u>	150	06/23/1993	COOLING SYSTEM FOR A WORKING VEHICLE	YAMASHITA, NOBUYUKI
<u>08117908</u>	<u>5410923</u>	150	09/07/1993	SHIFT CONTROL SYSTEM FOR A VEHICLE TRANSMISSION HAVING A BACKWARD/FORWARD DRIVE CHANGEOVER DEVICE AND A STEPLESS CHANGE SPEED DEVICE	YAMASHITA, NOBUYUKI
<u>08118207</u>	<u>5403674</u>	250	09/09/1993	CONDUCTIVE MATERIAL AND PROCESS FOR PREPARING THE SAME	YAMASHITA, NOBUYUKI
<u>08134892</u>	<u>5367864</u>	150	10/13/1993	RIDING LAWN MOWER	YAMASHITA, NOBUYUKI
<u>08207049</u>	<u>5449547</u>	150	03/08/1994	HARD COATING MATERIAL, SLIDING MEMBER COATED WITH HARD COATING MATERIAL AND METHOD FOR MANUFACTURING SLIDING MEMBER	YAMASHITA, NOBUYUKI
<u>08253922</u>	<u>5582414</u>	150	06/03/1994	SLIDING MEMBER AND METHOD FOR MANUFACTURING THE SAME	YAMASHITA, NOBUYUKI
<u>08410520</u>	<u>5678648</u>	150	03/27/1995	WORKING VEHICLE	YAMASHITA, NOBUYUKI
<u>08501446</u>	Not Issued	161	07/12/1995	WEAR RESISTANT THERMAL SPRAYED LAYER, FORMING METHOD THEREOF, AND SLIDING MEMBER COVERED THEREWITH	YAMASHITA, NOBUYUKI
<u>08529176</u>	<u>5778388</u>	150	09/15/1995	METHOD OF PROCESSING A SYNCHRONIZATION POINT IN A DATABASE MANAGEMENT METHOD TO ASSURE A	YAMASHITA, NOBUYUKI

				DATABASE VERSION USING UPDATE LOGS FROM ACCUMULATED TRANSACTIONS	
<u>08575329</u>	<u>5601293</u>	150	12/20/1995	SLIDING MEMBER WITH HERD TERNERY FILM	YAMASHITA, NOBUYUKI
<u>08623561</u>	<u>5689953</u>	150	03/28/1996	COOLING SYSTEM FOR A LIQUID-COOLED ENGINE	YAMASHITA, NOBUYUKI
<u>08767800</u>	<u>5718437</u>	150	12/17/1996	COMBINED OIL RING WITH SPACER/EXPANDER HAVING CR2N COATING THEREON	YAMASHITA, NOBUYUKI
<u>08788345</u>	<u>5820131</u>	150	01/27/1997	PISTON RING HAVING WEAR COATING CONSISTING OF CR2N OR A MIXTURE OF CR2N AND CR	YAMASHITA, NOBUYUKI
<u>08882294</u>	Not Issued	161	06/25/1997	PISTON RING	YAMASHITA, NOBUYUKI
<u>08882521</u>	<u>5887671</u>	150	06/25/1997	WORKING VEHICLE WITH POWER STEERING	YAMASHITA, NOBUYUKI
<u>08957799</u>	<u>6122903</u>	150	10/24/1997	APPARATUS FOR RAISING AND LOWERING A MOWER UNIT	YAMASHITA, NOBUYUKI
<u>09086089</u>	<u>6012273</u>	150	05/28/1998	VERTICALLY MOVABLE GRASS CATCHER FOR A MOWER	YAMASHITA, NOBUYUKI
<u>09090927</u>	<u>6060182</u>	150	06/05/1998	HARD COATING MATERIAL, SLIDING MEMBER COVERED WITH HARD COATING MATERIAL AND MANUFACTURING METHOD THEREOF	YAMASHITA, NOBUYUKI
<u>09150290</u>	<u>6231440</u>	150	09/09/1998	COMPUTER GAME APPATATUS	YAMASHITA, NOBUYUKI
<u>09161486</u>	<u>6139022</u>	150	09/28/1998	PISTON RING	YAMASHITA, NOBUYUKI
<u>09352329</u>	<u>6279913</u>	150	07/13/1999	SLIDING MEMBER AND MANUFACTURING METHOD THEREOF	YAMASHITA, NOBUYUKI
<u>09352345</u>	<u>6325385</u>	150	07/13/1999	PISTON RING	YAMASHITA, NOBUYUKI
<u>09391579</u>	Not Issued	161	09/08/1999	GRASS CUTTING MACHINE	YAMASHITA, NOBUYUKI
<u>09512227</u>	<u>6360517</u>	150	02/24/2000	Mower unit	YAMASHITA, NOBUYUKI
<u>09652778</u>	<u>6513312</u>	150	08/31/2000	MOWER WITH A GRASS	YAMASHITA,

				CATCHER	NOBUYUKI
<a href="#">09653456</a>	Not Issued	161	08/31/2000	Method and system for display data in a database system	YAMASHITA, NOBUYUKI
<a href="#">09653947</a>	<a href="#">6755743</a>	150	09/01/2000	COMMUNICATION GAME SYSTEM AND PROCESSING METHOD THEREOF	YAMASHITA, NOBUYUKI
<a href="#">09789483</a>	<a href="#">6454041</a>	150	02/20/2001	WORKING VEHICLE WITH A PTO APPARATUS	YAMASHITA, NOBUYUKI
<a href="#">09789485</a>	<a href="#">6720679</a>	150	02/20/2001	INTERLOCK CIRCUIT FOR A WORKING VEHICLE	YAMASHITA, NOBUYUKI
<a href="#">09907049</a>	<a href="#">6801921</a>	150	07/17/2001	METHOD AND SYSTEM FOR MANAGING MULTIPLE DATABASE STORAGE UNITS	YAMASHITA, NOBUYUKI
<a href="#">09925839</a>	<a href="#">6588299</a>	150	08/08/2001	TRANSMISSION FOR A WORKING VEHICLE	YAMASHITA, NOBUYUKI
<a href="#">09925840</a>	<a href="#">6584757</a>	150	08/08/2001	MOWING MACHINE WTH DUMPING GRASS CATCHER	YAMASHITA, NOBUYUKI

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">09944262</a>	<a href="#">6829623</a>	150	08/31/2001	METHOD AND SYSTEM FOR MANAGING MULTIPLE DATABASE STORAGE UNITS	YAMASHITA, NOBUYUKI
<a href="#">09994950</a>	<a href="#">6954760</a>	150	11/27/2001	METHOD AND SYSTEM FOR MULTIDIMENSIONAL DATABASE MANAGEMENT	YAMASHITA, NOBUYUKI
<a href="#">09997618</a>	<a href="#">6484486</a>	150	11/29/2001	GRASS CUTTING MACHINE WITH MOWER UNIT	YAMASHITA, NOBUYUKI
<a href="#">10015429</a>	<a href="#">6985906</a>	150	12/13/2001	METHOD AND SYSTEM FOR MULTIDIMENSIONAL DATABASE MANAGEMENT	YAMASHITA, NOBUYUKI
<a href="#">10152439</a>	Not Issued	71	05/20/2002	Data processing method, data processing apparatus, and data processing program	YAMASHITA, NOBUYUKI
<a href="#">10214193</a>	Not Issued	71	08/08/2002	Recording medium of game program and game device using card	YAMASHITA, NOBUYUKI
<a href="#">10222424</a>	Not Issued	161	08/15/2002	Method and system for employing and managing storage	YAMASHITA, NOBUYUKI
<a href="#">10228387</a>	<a href="#">6672043</a>	150	08/26/2002	LAWN MOWER FOR DIRECTING GRASS CLIPPINGS TO A GRASS CATCHER	YAMASHITA, NOBUYUKI
<a href="#">10254488</a>	<a href="#">6742437</a>	150	09/25/2002	VALVE MECHANISM OF BOOSTER	YAMASHITA, NOBUYUKI
<a href="#">10301215</a>	<a href="#">6970989</a>	150	11/21/2002	VOLUME MANAGEMENT METHOD AND APPARATUS	YAMASHITA, NOBUYUKI
<a href="#">10645311</a>	<a href="#">6931827</a>	150	08/21/2003	GRASS COLLECTING APPARATUS AND A LAWN MOWER HAVING SUCH A GRASS COLLECTING APPARATUS	YAMASHITA, NOBUYUKI



<a href="#"><u>10721150</u></a>	Not Issued	30	11/26/2003	Control program for action game	YAMASHITA, NOBUYUKI
<a href="#"><u>10745158</u></a>	Not Issued	61	12/22/2003	Storage path control method	YAMASHITA, NOBUYUKI
<a href="#"><u>10771667</u></a>	<a href="#"><u>6815862</u></a>	150	02/04/2004	MULTILAYER BRUSH	YAMASHITA, NOBUYUKI
<a href="#"><u>10789472</u></a>	Not Issued	71	02/27/2004	Method and program of collecting performance data for storage network	YAMASHITA, NOBUYUKI
<a href="#"><u>10819185</u></a>	<a href="#"><u>7051025</u></a>	150	04/07/2004	METHOD AND SYSTEM FOR DISPLAYING MULTIDIMENSIONAL AGGREGATE PATTERNS IN A DATABASE SYSTEM	YAMASHITA, NOBUYUKI
<a href="#"><u>10830327</u></a>	<a href="#"><u>6932708</u></a>	150	04/23/2004	COMMUNICATION GAME SYSTEM AND COMMUNICATION GAME PROCESSING METHOD	YAMASHITA, NOBUYUKI
<a href="#"><u>10830328</u></a>	Not Issued	41	04/23/2004	Communication game system and communication game processing method	YAMASHITA, NOBUYUKI
<a href="#"><u>10929699</u></a>	Not Issued	30	08/30/2004	Method and system for managing multiple database storage units	YAMASHITA, NOBUYUKI
<a href="#"><u>10936432</u></a>	Not Issued	90	09/08/2004	GRASS COLLECTING SYSTEM FOR A LAWN MOWER	YAMASHITA, NOBUYUKI
<a href="#"><u>11069899</u></a>	Not Issued	41	03/01/2005	Grass collector and grass mower having the grass collector	YAMASHITA, NOBUYUKI
<a href="#"><u>11106684</u></a>	Not Issued	25	04/15/2005	Termination structure of cable with shield layer	YAMASHITA, NOBUYUKI
<a href="#"><u>11220971</u></a>	Not Issued	30	09/07/2005	Fill detection device for grass container and grass container	YAMASHITA, NOBUYUKI
<a href="#"><u>11293505</u></a>	Not Issued	30	12/05/2005	Shield wire, housing connected with same, connecting method thereof and shield wire unit	YAMASHITA, NOBUYUKI
<a href="#"><u>29137916</u></a>	<a href="#"><u>D457898</u></a>	150	03/01/2001	"HIGH-DUMP" GRASS COLLECTOR FOR A LAWN TRACTOR	YAMASHITA, NOBUYUKI

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Last Name = KUSAMA

First Name = TAKATO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">09908590</a>	6799314	150	07/20/2001	WORK FLOW MANAGEMENT METHOD AND WORK FLOW MANAGEMENT SYSTEM OF CONTROLLING A WORK FLOW	KUSAMA, TAKATO
<a href="#">10059327</a>	Not Issued	30	01/31/2002	Work flow management method and system and processing program thereof	KUSAMA, TAKATO
<a href="#">10140981</a>	Not Issued	61	05/09/2002	Workflow system	KUSAMA, TAKATO
<a href="#">10358975</a>	<a href="#">7035882</a>	150	02/04/2003	DATA STORAGE SYSTEM	KUSAMA, TAKATO
<a href="#">10384254</a>	<a href="#">7031988</a>	150	03/06/2003	METHOD FOR DISPLAYING THE AMOUNT OF STORAGE USE	KUSAMA, TAKATO
<a href="#">10771113</a>	Not Issued	95	02/02/2004	METHOD FOR ANALYZING PERFORMANCE INFORMATION	KUSAMA, TAKATO
<a href="#">10789472</a>	Not Issued	71	02/27/2004	Method and program of collecting performance data for storage network	KUSAMA, TAKATO
<a href="#">10834839</a>	Not Issued	41	04/30/2004	Method for rearranging logical volume	KUSAMA, TAKATO
<a href="#">10875426</a>	Not Issued	41	06/23/2004	Storage area management method and system	KUSAMA, TAKATO
<a href="#">11202552</a>	Not Issued	20	08/11/2005	Method for analyzing performance information	KUSAMA, TAKATO
<a href="#">11254803</a>	Not Issued	20	10/21/2005	Storage management system and method	KUSAMA, TAKATO
<a href="#">11325021</a>	Not Issued	25	01/03/2006	Data storage system	KUSAMA, TAKATO
<a href="#">11429238</a>	Not Issued	20	05/08/2006	Storage management method and server	KUSAMA, TAKATO



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### 1 [Technical reports](#)



SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(5.28 MB\)](#)

Additional Information: [full citation](#)

### 2 [I/O reference behavior of production database workloads and the TPC benchmarks—an analysis at the logical level](#)



Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

March 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(5.42 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amounts of data. The key to achieving good I/O performance is to thoroughly understand its characteristics. In this article we present a comprehensive analysis of the logical I/O reference behavior of the peak production database workloads from ten of the world's largest corporations ...

**Keywords:** I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

### 3 [Automatic parsing for content analysis](#)



Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

**Publisher:** ACM Press

Full text available: [pdf\(4.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do

not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

**Keywords:** content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

#### 4 Data replicas in distributed information services



H. M. Gladney

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

**Publisher:** ACM Press

Full text available: pdf(1.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

#### 5 Building knowledge base management systems

John Mylopoulos, Vinay Chaudhri, Dimitris Plexousakis, Adel Shrufi, Thodoros Topologlou  
December 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 4

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(403.22 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Advanced applications in fields such as CAD, software engineering, real-time process control, corporate repositories and digital libraries require the construction, efficient access and management of large, shared knowledge bases. Such knowledge bases cannot be built using existing tools such as expert system shells, because these do not scale up, nor can they be built in terms of existing database technology, because such technology does not support the rich representational structure and infer ...

**Keywords:** Concurrency control, Constraint enforcement, Knowledge base management systems, Rule management, Storage management

#### 6 Highly available systems for database applications



Won Kim

March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1

**Publisher:** ACM Press

Full text available: pdf(2.43 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

As users entrust more and more of their applications to computer systems, the need for systems that are continuously operational (24 hours per day) has become even greater. This paper presents a survey and analysis of representative architectures and techniques that have been developed for constructing highly available systems for database applications. It then proposes a design of a distributed software subsystem that can serve as a unified framework for constructing database applica ...

#### 7 Index scans using a finite LRU buffer: a validated I/O model

Lothar F. Mackert, Guy M. Lohman



September 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 3

**Publisher:** ACM Press

Full text available: pdf(1.65 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Indexes are commonly employed to retrieve a portion of a file or to retrieve its records in a particular order. An accurate performance model of indexes is essential to the design, analysis, and tuning of file management and database systems, and particularly to database query optimization. Many previous studies have addressed the problem of estimating the number of disk page fetches when randomly accessing k records out of N given records stored on

8 [Buffer management based on return on consumption in a multi-query environment](#)

Philip S. Yu, Douglas W. Cornell

January 1993 **The VLDB Journal — The International Journal on Very Large Data**

**Bases**, Volume 2 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(1.69 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In a multi-query environment, the marginal utilities of allocating additional buffer to the various queries can be vastly different. The conventional approach examines each query in isolation to determine the optimal access plan and the corresponding locality set. This can lead to performance that is far from optimal. As each query can have different access plans with dissimilar locality sets and sensitivities to memory requirement, we employ the concepts of memory consumption and return on cons ...

**Keywords:** buffer management, join methods, query optimization, queueing model, simulated annealing, simulation

9 [Session 1A: Dynamic verification: Static scheduling of multi-domain memories for functional verification](#)

Murali Kudlugi, Charles Selvidge, Russell Tessier

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

**Publisher:** IEEE Press

Full text available: pdf(113.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Over the past decade both the quantity and complexity of available on-chip memory resources have increased dramatically. In order to ensure accurate ASIC behavior, both logic functions and memory resources must be successfully verified before fabrication. Often, the functional verification of contemporary ASIC memory is complicated by the presence of multiple design clocks that operate asynchronously to each other. The presence of multiple clock domains presents significant challenges for large ...

10 [Systematic cycle budget versus system power trade-off: a new perspective on system exploration of real-time data-dominated applications](#)

Erik Brockmeyer, Arnout Vandecappelle, Francky Catthoor

August 2000 **Proceedings of the 2000 international symposium on Low power electronics and design**

**Publisher:** ACM Press

Full text available: pdf(218.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In contrast to current design practice for (programmable) processor mapping, which mainly targets performance, we focus on a systematic trade-off between cycle budget and energy consumed in the background memory organization. The latter is a crucial component in many of today's designs, including multi-media, network protocols and

telecom signal processing. We have a systematic way and tool to explore both freedoms and to arrive at Pareto charts, in which for a given application the lowest ...

# 11 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith  
February 1980 **ACM SIGART Bulletin**, Issue 70

**Publisher:** ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

# 12 Sequentiality and prefetching in database systems



Alan Jay Smith  
September 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(1.74 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sequentiality of access is an inherent characteristic of many database systems. We use this observation to develop an algorithm which selectively prefetches data blocks ahead of the point of reference. The number of blocks prefetched is chosen by using the empirical run length distribution and conditioning on the observed number of sequential block references immediately preceding reference to the current block. The optimal number of blocks to prefetch is estimated as a function of a number ...

**Keywords:** IMS, buffer management, database systems, dynamic programming, paging, prefetching, sequentiality

# 13 Object operations benchmark



R. G. G. Cattell, J. Skeen  
March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(2.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Performance is a major issue in the acceptance of object-oriented and relational database systems aimed at engineering applications such as computer-aided software engineering (CASE) and computer-aided design (CAD). Because traditional database systems benchmarks are inappropriate to measure performance for operations on engineering objects, we designed a new benchmark Object Operations version 1 (OO1) to focus on important characteristics of these applications. OO1 is descended from an ear ...

**Keywords:** CAD, CASE, client-server architecture, engineering database benchmark, hypermodel, object operations benchmark, object-oriented DBMS's, relation of DBMS's, workstations

# 14 Dynamic metrics for java



Bruno Dufour, Karel Driesen, Laurie Hendren, Clark Verbrugge  
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN**

**conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11

**Publisher:** ACM Press

Full text available:  pdf(222.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)s, [index terms](#)

In order to perform meaningful experiments in optimizing compilation and run-time system design, researchers usually rely on a suite of benchmark programs of interest to the optimization technique under consideration. Programs are described as *numeric*, *memory-intensive*, *concurrent*, or *object-oriented*, based on a qualitative appraisal, in some cases with little justification. We believe it is beneficial to quantify the behaviour of programs with a concise and precisely ...

**Keywords:** Java, dynamic metrics, execution traces, optimization, profiling, program analysis, software metrics


15 Experience with processes and monitors in Mesa



Butler W. Lampson, David D. Redell

February 1980 **Communications of the ACM**, Volume 23 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.22 MB)

Additional Information: [full citation](#), [references](#), [citing](#)s

**Keywords:** concurrency, condition, deadlock, module, monitor, operating system, process, synchronization, task, variable

16 Special issue: AI in engineering



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

**Publisher:** ACM Press

Full text available:  pdf(8.79 MB)

Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.


17 Implementing a cache for a high-performance GaAs microprocessor



O. A. Olukotun, T. N. Mudge, R. B. Brown

April 1991 **ACM SIGARCH Computer Architecture News , Proceedings of the 18th annual international symposium on Computer architecture ISCA '91**, Volume 19 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(1.12 MB)

Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#)

18 Increasing the effective bandwidth of complex memory systems in multivector processors

Anna M. del Corral, Jose M. Llaberia

November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '96**

**Publisher:** IEEE Computer Society

Full text available:  pdf(185.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In multivector processors, the lost cycles due to conflicts between concurrent vector streams make the effective throughput be lower than the peak throughput. When the request rate of all the concurrent vector streams to every memory module is less than or equal to the service rate, conflicts appear because concurrent vector streams reference memory modules in different orders. In addition, in a memory system where several memory modules are mapped in every bus (complex memory system) bus c ...

**Keywords:** Multivector Processors, Effective Memory Bandwidth, Complex Memory System, Memory Module Inter-Conflicts, Section Inter-Conflicts

## 19 A study of dynamic reconnection



Alexandre Brandwajn

August 1983 **Proceedings of the 1983 ACM SIGMETRICS conference on Measurement and modeling of computer systems**

**Publisher:** ACM Press

Full text available: pdf(437.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The recently introduced Extended Architecture (XA) of large IBM computer systems includes, in the disk I/O area, the ability for an access to be resumed and completed on a path different from the one on which it has been initiated. The expected disk performance improvement due to this feature - known as Dynamic Path Reconnection - is investigated in this note. Two popular double pathing connection schemes are considered: switched substrings (as in IBM 3380 Dynamic Path Selection) ...

## 20 Extendible hashing—a fast access method for dynamic files



Ronald Fagin, Jurg Nievergelt, Nicholas Pippenger, H. Raymond Strong

September 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 3

**Publisher:** ACM Press

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Extendible hashing is a new access technique, in which the user is guaranteed no more than two page faults to locate the data associated with a given unique identifier, or key. Unlike conventional hashing, extendible hashing has a dynamic structure that grows and shrinks gracefully as the database grows and shrinks. This approach simultaneously solves the problem of making hash tables that are extendible and of making radix search trees that are balanced. We study, by analysis and simulation ...

**Keywords:** B-tree, access method, directory, extendible hashing, external hashing, file organization, hashing, index, radix search, searching, trie

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**change** the DIP **switch** settings on the card to a different address. Repeat step 3.

Repeat ... Using STEP 7-Micro/WIN, **modify** the DP **port** address in the CPU ...

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